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**CHAMA DAY SECONDARY SCHOOL**

**NATURAL SCIENCES DEPARTMENT**

**GRADE 9B ENVIRONMENTAL SCIENCE ORIENTATION QUIZ 1 TERM 1**

**Wednesday, 29 January 2014**

**ANSWER ALL THE QUESTIONS DURATION: 20 Minutes MARKS: 10**

1. Draw an electric circuit diagram showing a battery (4 cells), an open switch and a light bulb. Label your diagram with appropriate electric symbols. [2]
2. Study the diagram below showing an electric light bulb designed and presented by a Grade 9B pupil for JETS Projects' exhibitions.

 **S**

 **T**

 **U**

 **Oxygen**

 **V**

 **X**

 **W**

 **Y Z**

1. Label the parts **S** and **T**. [2]
2. What is the function of part **V**? [1]
3. What is wrong with this design by a 9B pupil? [1]
4. How can you correct the mistake identified in **(c)**? [1]
5. The insulating material used to fill part **Z** is made of which material? [1]
6. Which is a better electric light bulb, the one whose filament is made of nichrome wire, iron, steel wool or tungsten? Give a reason for your answer [2]

 ***Total = 10 marks***

***"SCIENCE IS LIFE, RUN FOR IT," Eng. Chomba***